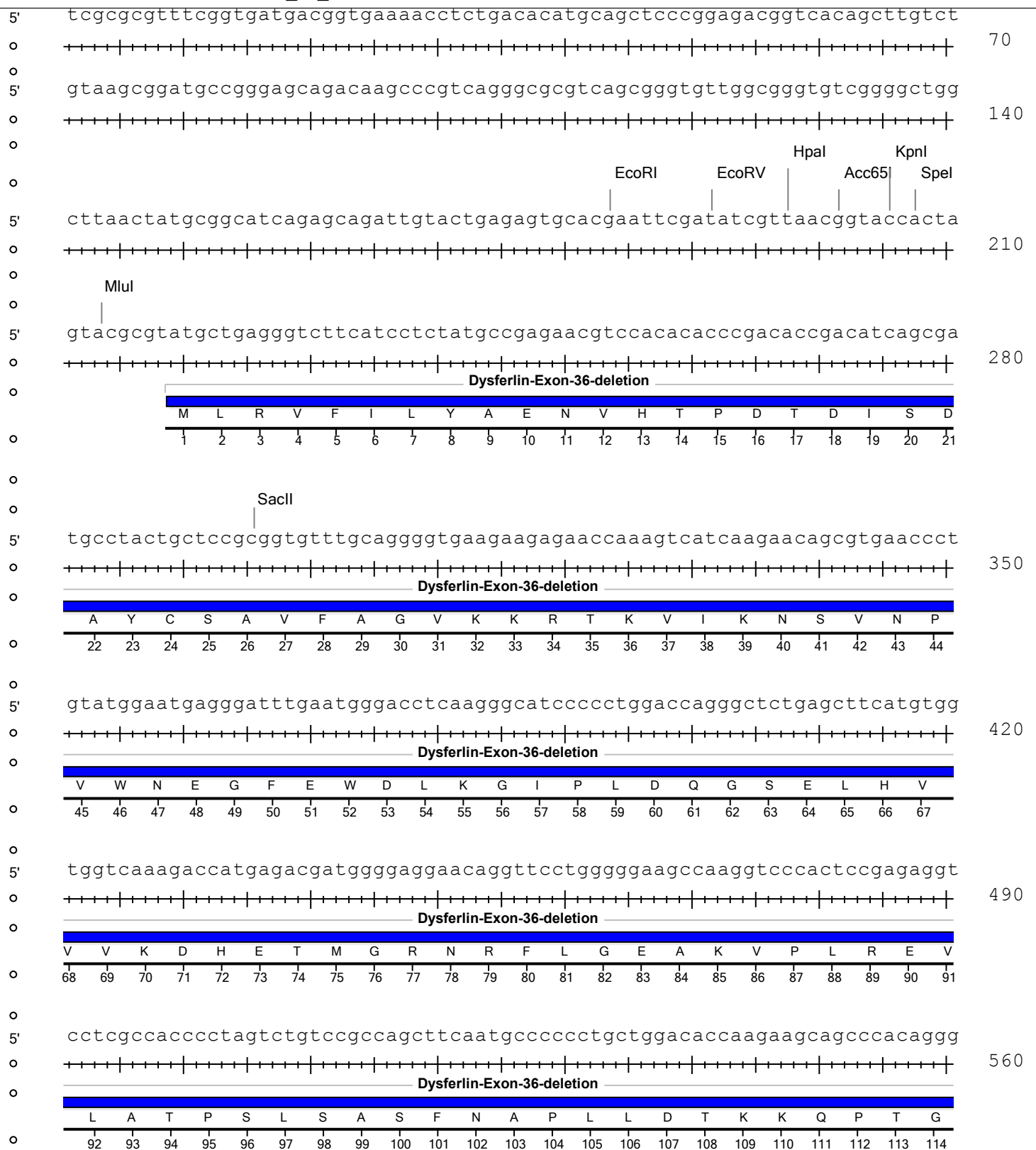


Dysferlin-Exon-36-deletion_in_pUC57-Kan



Dysferlin-Exon-36-deletion_in_pUC57-Kan

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 o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-36-deletion**
 o A S L V L Q V S Y T P L P G A V P L F P P P T
 o 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137

5' ctctggagccctccccgactctgctgacctggatgtagtggcagacacaggaggagaggaagacacaga 700
 o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-36-deletion**
 o P L E P S P T L P D L D V V A D T G G E E D T E
 o 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161

5' ggaccagggactcactggagatgaggcggagccattcctggatcaaagcggaggccccgggggctcccacc 770
 o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-36-deletion**
 o D Q G L T G D E A E P F L D Q S G G P G A P T
 o 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184

5' accccaaggaaactaccttcacgtcctccgccccactacccccgggatcaaaagaaagcgaagtggccta 840
 o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-36-deletion**
 o T P R K L P S R P P P H Y P G I K R K R S A P
 o 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207

o XbaI
 o |
 5' catctagaaagctgctgtcagacaaaaccgcaggatttcagatcaggggtccagggtgatcgagggggcgcca 910
 o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-36-deletion**
 o T S R K L L S D K P Q D F Q I R V Q V I E G R Q
 o 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231

5' gctgccgggggtgaacatcaagcctgtggtcaaggttaccgctgcagggcagaccaagcggacgcggatc 980
 o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-36-deletion**
 o L P G V N I K P V V K V T A A G Q T K R T R I
 o 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254

5' cacaagggaaacagccccactcttcaatgagactcttttcttcaacttgtttgactctcctggggagctgt 1050
 o +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 o **Dysferlin-Exon-36-deletion**
 o H K G N S P L F N E T L F F N L F D S P G E L
 o 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277

Dysferlin-Exon-36-deletion_in_pUC57-Kan

5' ttgatgagcccatctttatcacggtggttagactctcgtttctctcaggacagatgctctcctcggggagtt 1120
o
o **Dysferlin-Exon-36-deletion**
o F D E P I F I T V V D S R S L R T D A L L G E F
o 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301

5' ccgatggacgtgggcaccatttacagagagccccggcagcctatctcaggaagtggctgctgctctca 1190
o
o **Dysferlin-Exon-36-deletion**
o R M D V G T I Y R E P R H A Y L R K W L L L S
o 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324

5' gaccctgatgacttctctgctggggccagaggctacctgaaaacaagcctttgtgtgctggggcctgggg 1260
o
o **Dysferlin-Exon-36-deletion**
o D P D D F S A G A R G Y L K T S L C V L G P G
o 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347

5' acgaagcgcctctggagagaaaagaccctctgaagacaaggaggacattgaaagcaacctgctccggcc 1330
o
o **Dysferlin-Exon-36-deletion**
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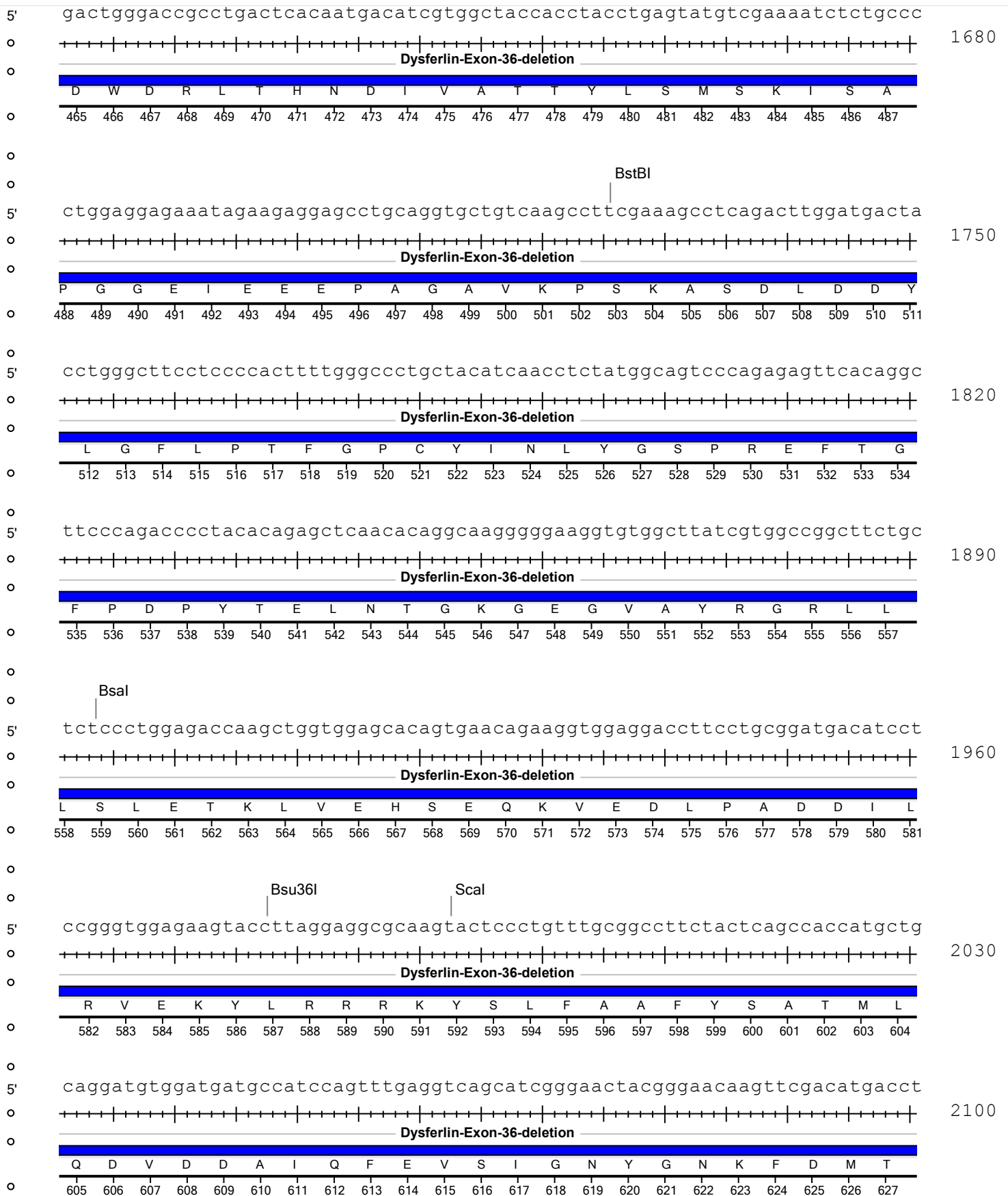
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o 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394

5' gacgatgccgtgatggacaacgtgaaacagatctttggcttcgagagtaacaagaagaacttggtggacc 1470
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o **Dysferlin-Exon-36-deletion**
o D D A V M D N V K Q I F G F E S N K K N L V D
o 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417

5' cctttgtggagggtcagctttgcggggaaaatgctgtgcagcaagatcttgagagaagacggccaaccctca 1540
o
o **Dysferlin-Exon-36-deletion**
o P F V E V S F A G K M L C S K I L E K T A N P Q
o 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441

5' gtggaaccagaacatcacactgcctgccatgtttcctccatgtgcgaaaaaatgaggattcgtatcata 1610
o
o **Dysferlin-Exon-36-deletion**
o W N Q N I T L P A M F P S M C E K M R I R I I
o 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464

Dysferlin-Exon-36-deletion_in_pUC57-Kan



Dysferlin-Exon-36-deletion_in_pUC57-Kan

5' gcctgccgctggcctccaccactcagtacagccgtgcagtcctttgacgggtgccactactactacctacc 2170
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o **Dysferlin-Exon-36-deletion**
C L P L A S T T Q Y S R A V F D G C H Y Y Y L P
o 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651

5' ctggggtaacgtgaaacctgtgggtggtgctgtcatcctactgggaggacatcagccatagaatcgagact 2240
o
o **Dysferlin-Exon-36-deletion**
W G N V K P V V V L S S Y W E D I S H R I E T
o 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674

5' cagaaccagctgcttgggattgctgaccggctggaagctggcctggagcaggtccacctggccctgaagg 2310
o
o **Dysferlin-Exon-36-deletion**
Q N Q L L G I A D R L E A G L E Q V H L A L K
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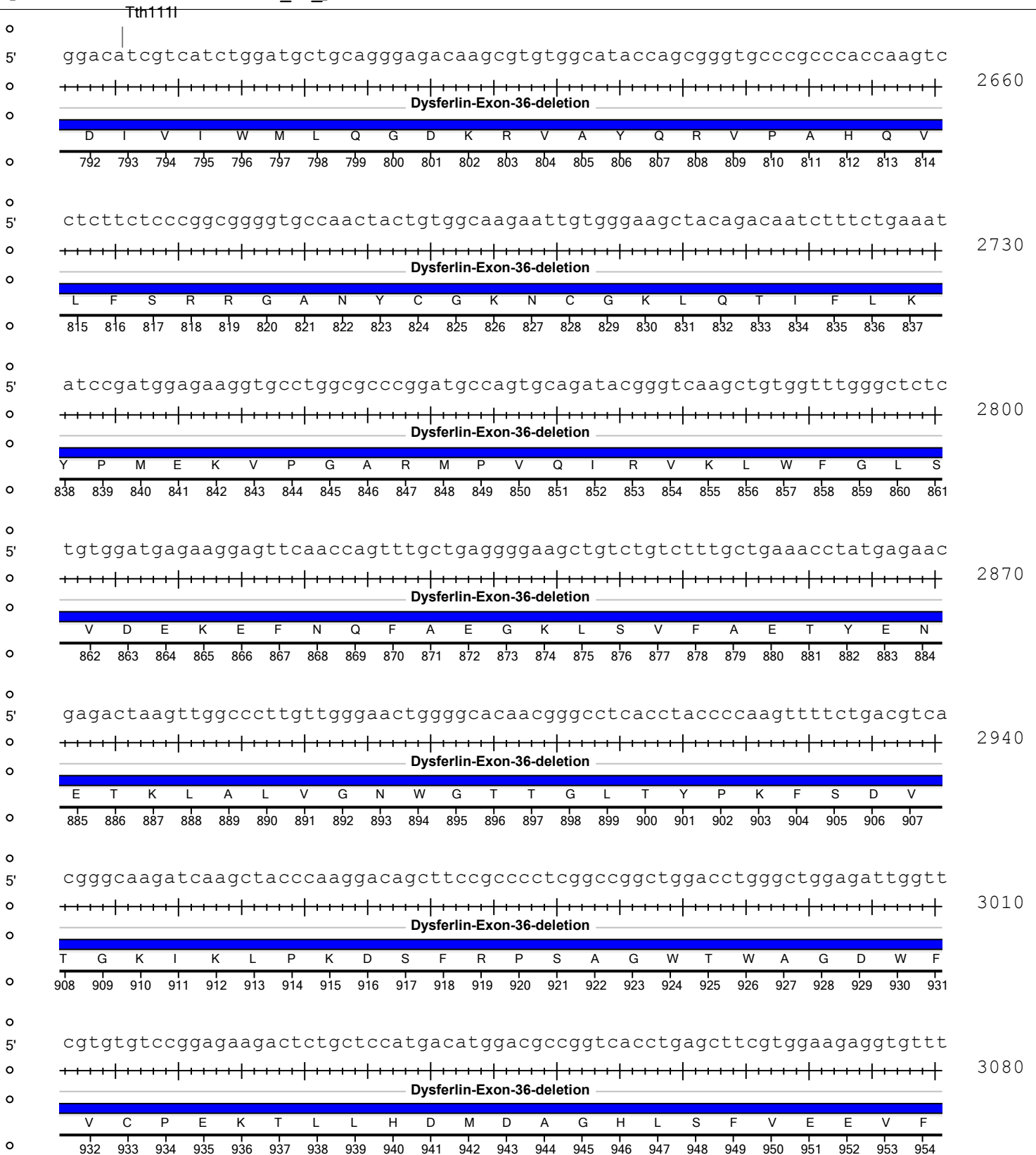
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o
o **Dysferlin-Exon-36-deletion**
A Q C S T E D V D S L V A Q L T D E L I A G C S
o 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721

5' ccagcctctgggtgacatccatgagacacctctgccaccacactggaccagtacctgtaccagctgagc 2450
o
o **Dysferlin-Exon-36-deletion**
Q P L G D I H E T P S A T H L D Q Y L Y Q L R
o 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744

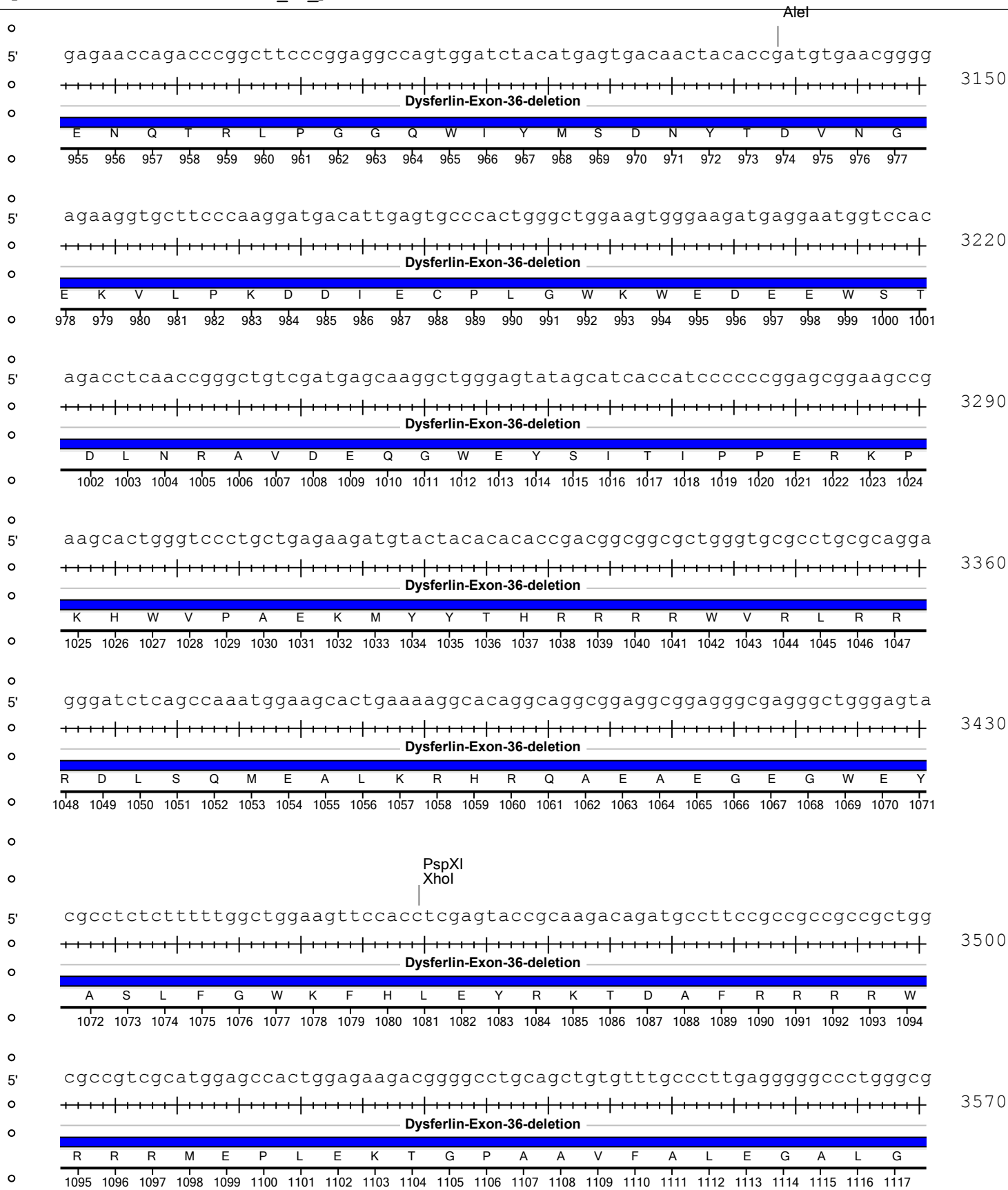
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o **Dysferlin-Exon-36-deletion**
T H H L S Q I T E A A L A L K L G H S E L P A
o 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767

5' ctctggagcaggcggaggactggctcctgcgtctgcgtgccctggcagaggagccccagaacagcctgcc 2590
o
o **Dysferlin-Exon-36-deletion**
A L E Q A E D W L L R L R A L A E E P Q N S L P
o 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791

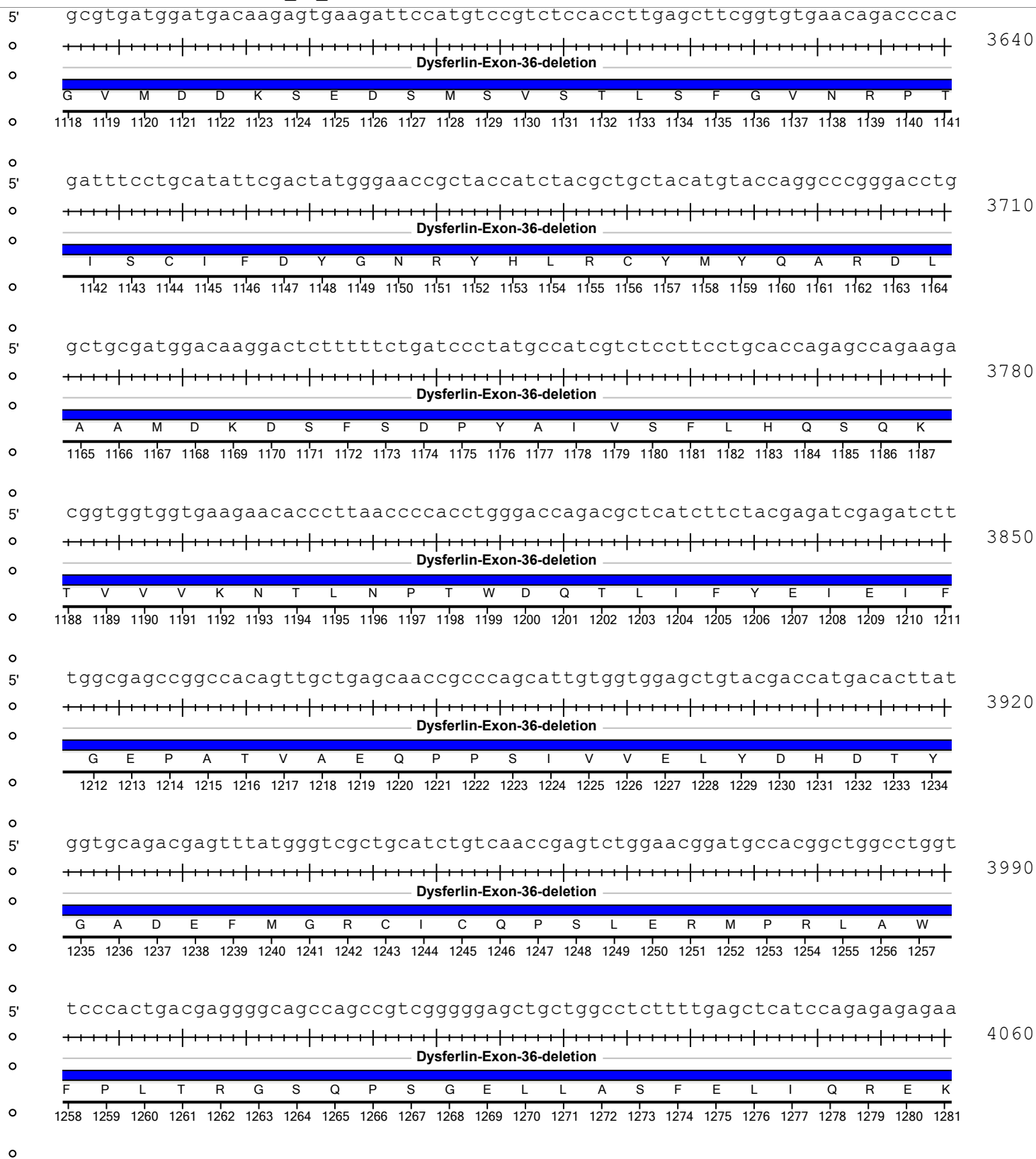
Dysferlin-Exon-36-deletion_in_pUC57-Kan



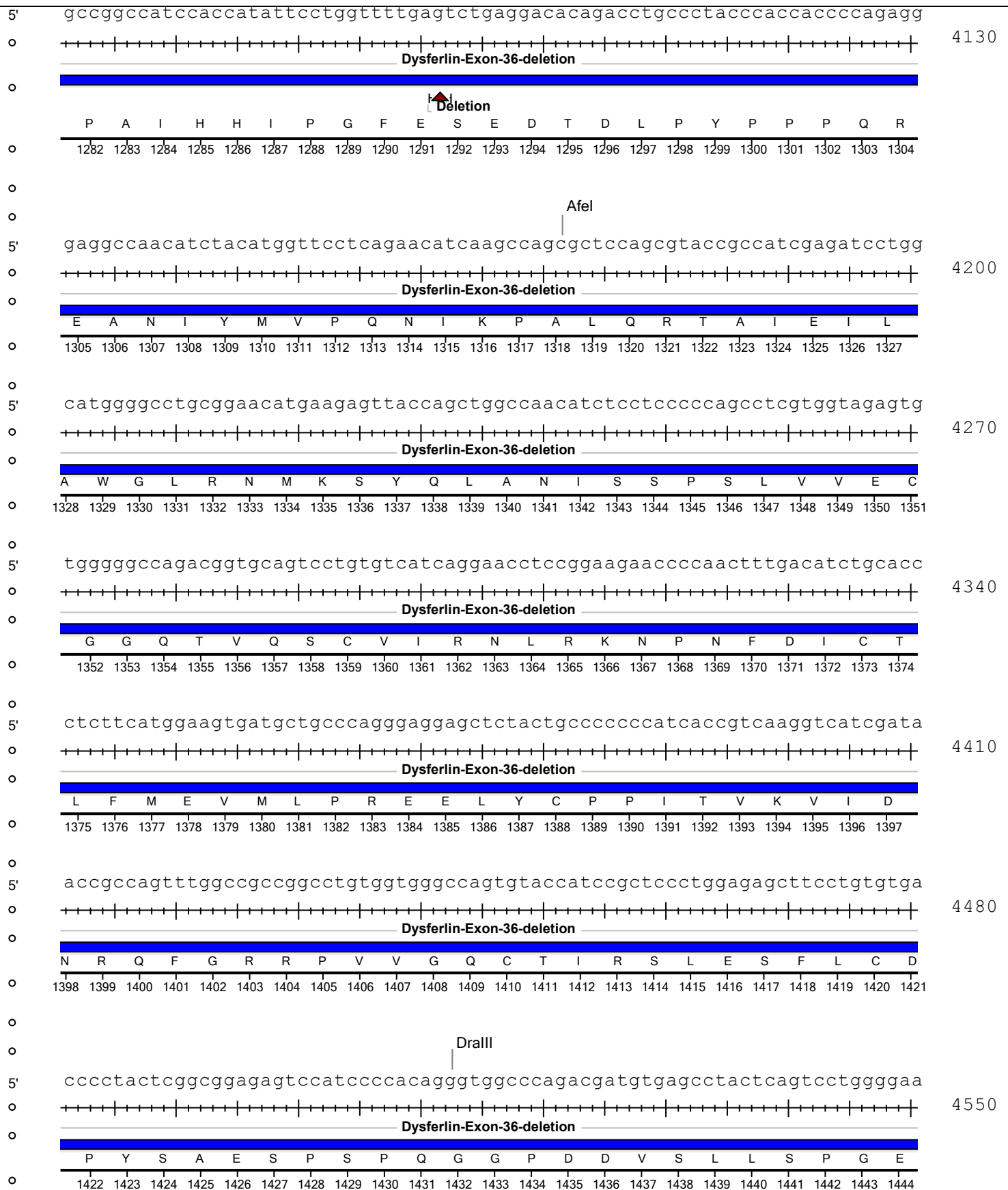
Dysferlin-Exon-36-deletion_in_pUC57-Kan



Dysferlin-Exon-36-deletion _in_pUC57-Kan



Dysferlin-Exon-36-deletion_in_pUC57-Kan



Dysferlin-Exon-36-deletion_in_pUC57-Kan

AloI

o

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o

o

Dysferlin-Exon-36-deletion

o

D V L I D I D D K E P L I P I Q E E E F I D W

o

1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467

AloI

o

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o

Dysferlin-Exon-36-deletion

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W S K F F A S I G E R E K C G S Y L E K D F D T

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StuI

o

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o

Dysferlin-Exon-36-deletion

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L K V Y D T Q L E N V E A F E G L S D F C N T

o

1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514

5' ttcaagctgtaccggggcaagacgcaggaggagacagaagatccatctgtgattggtgaatttaagggcc 4830

o

o

Dysferlin-Exon-36-deletion

o

F K L Y R G K T Q E E T E D P S V I G E F K G

o

1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537

5' tcttcaaatttatcccctcccagaagaccagccatccccatgcccccaagacagttccaccagctggc 4900

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Dysferlin-Exon-36-deletion

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Dysferlin-Exon-36-deletion

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A Q G P Q E C L V R I Y I V R A F G L Q P K D

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1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584

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Dysferlin-Exon-36-deletion

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P N G K C D P Y I K I S I G K K S V S D Q D N

o

1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607

Dysferlin-Exon-36-deletion_in_pUC57-Kan

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o
o **Dysferlin-Exon-36-deletion**
o Y I P C T L E P V F G K M F E L T C T L P L E K
o 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631

5' ggacctaaagatcactctctatgactatgacctcctctccaaggacgaaaagatcggtgagacggctcgtc 5180
o
o
o **Dysferlin-Exon-36-deletion**
o D L K I T L Y D Y D L L S K D E K I G E T V V
o 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654

5' gacctggagaacaggctgctgtccaagtggggctcgctgtggactcccacagacctactgtgtctctg 5250
o
o
o **Dysferlin-Exon-36-deletion**
o D L E N R L L S K F G A R C G L P Q T Y C V S
o 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677

5' gaccgaaccagtggcgggaccagctccgcccctccagctcctccacctcttctgccagcagcatagagt 5320
o
o
o **Dysferlin-Exon-36-deletion**
o G P N Q W R D Q L R P S Q L L H L F C Q Q H R V
o 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701

5' caaggcacctgtgtaccggacagaccgtgtaatgtttcaggataaagaatattccattgaagagatagag 5390
o
o
o **Dysferlin-Exon-36-deletion**
o K A P V Y R T D R V M F Q D K E Y S I E E I E
o 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724

5' gctggcaggatcccaaaccacacctgggccagtgaggagcgtctggctctgcatgtgcttcagcagc 5460
o
o
o **Dysferlin-Exon-36-deletion**
o A G R I P N P H L G P V E E R L A L H V L Q Q
o 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747

5' agggcctgggtccgggagcagtgaggatcacggcccctctacagcccctgcagccagacatcgagcagg 5530
o
o
o **Dysferlin-Exon-36-deletion**
o Q G L V P E H V E S R P L Y S P L Q P D I E Q G
o 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771

Dysferlin-Exon-36-deletion _in_pUC57-Kan

5' gaagctgcagatgtgggtcgacatatttccgaaggccctggggcggcctggacctcccttcaacatcacc 5600
 o
 o **Dysferlin-Exon-36-deletion**
 K L Q M W V D L F P K A L G R P G P P F N I T
 o 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794

5' ccacggagagccagaaggttttctcgttgattatctggaataccagagatgtgatcctggatgacc 5670
 o
 o **Dysferlin-Exon-36-deletion**
 P R R A R R F F L R C I I W N T R D V I L D D
 o 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817

5' tgagcctcacgggggagaagatgagcgcacatttatgtgaaagggttgatgattggctttgaagaacacaa 5740
 o
 o **Dysferlin-Exon-36-deletion**
 L S L T G E K M S D I Y V K G W M I G F E E H K
 o 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841

5' gcaaaagacagacgtgcattatcgttccctgggaggtgaaggcaacttcaactggagggttcattttcccc 5810
 o
 o **Dysferlin-Exon-36-deletion**
 Q K T D V H Y R S L G G E G N F N W R F I F P
 o 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864

o
 o BsrDI
 5' ttcgactacctgccagctgagcaagtctgtaccattgccaagaaggatgccttctggaggctggacaaga 5880
 o
 o **Dysferlin-Exon-36-deletion**
 F D Y L P A E Q V C T I A K K D A F W R L D K
 o 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887

5' ctgagagcaaaatcccagcacgagtgggtgttccagatctgggacaatgacaagttctcctttgatgatt 5950
 o
 o **Dysferlin-Exon-36-deletion**
 T E S K I P A R V V F Q I W D N D K F S F D D F
 o 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911

o
 o SphI
 5' tctgggctccctgcagctcgatctcaaccgcatgcccagccagccaagacagccaagaagtgctccttg 6020
 o
 o **Dysferlin-Exon-36-deletion**
 L G S L Q L D L N R M P K P A K T A K K C S L
 o 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934

Dysferlin-Exon-36-deletion_in_pUC57-Kan

5' gaccagctggatgatgctttccaccagaatggtttgtgtccctttttgagcagaaaacagtgaagggct 6090
 o
 o **Dysferlin-Exon-36-deletion**
 o D Q L D D A F H P E W F V S L F E Q K T V K G
 o 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957

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 o
 o **Dysferlin-Exon-36-deletion**
 o W W P C V A E E G E K K I L A G K L E M T L E I
 o 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981

5' tgtagcagagagtgagcatgaggagcggcctgctggccagggccgggatgagcccaacatgaaccctaag 6230
 o
 o **Dysferlin-Exon-36-deletion**
 o V A E S E H E E R P A G Q G R D E P N M N P K
 o 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004
 HindIII

5' cttaggacccaaggcgccccgacacctccttctgtggtttacctccccatacaagaccatgaagttca 6300
 o
 o **Dysferlin-Exon-36-deletion**
 o L E D P R R P D T S F L W F T S P Y K T M K F
 o 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027

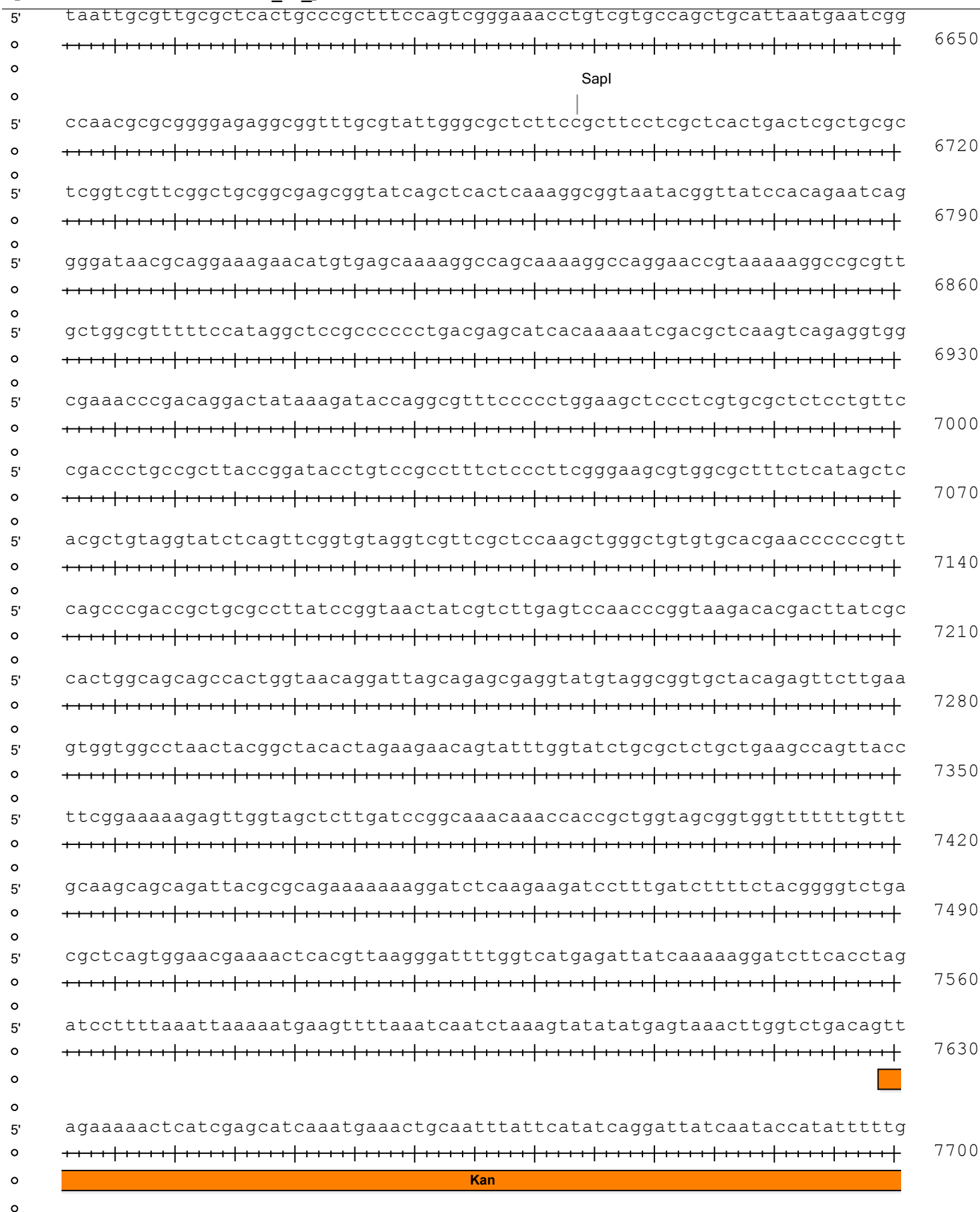
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 o
 o **Dysferlin-Exon-36-deletion**
 o I L W R R F R W A I I L F I I L F I L L L F L A
 o 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051

5' catcttcatctacgccttcccgaactatgctgccatgaagctggtgaagcccttcagctgatgatcacca 6440
 o
 o **Dysferlin-Exon-36-deletion**
 o I F I Y A F P N Y A A M K L V K P F S
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 BclI

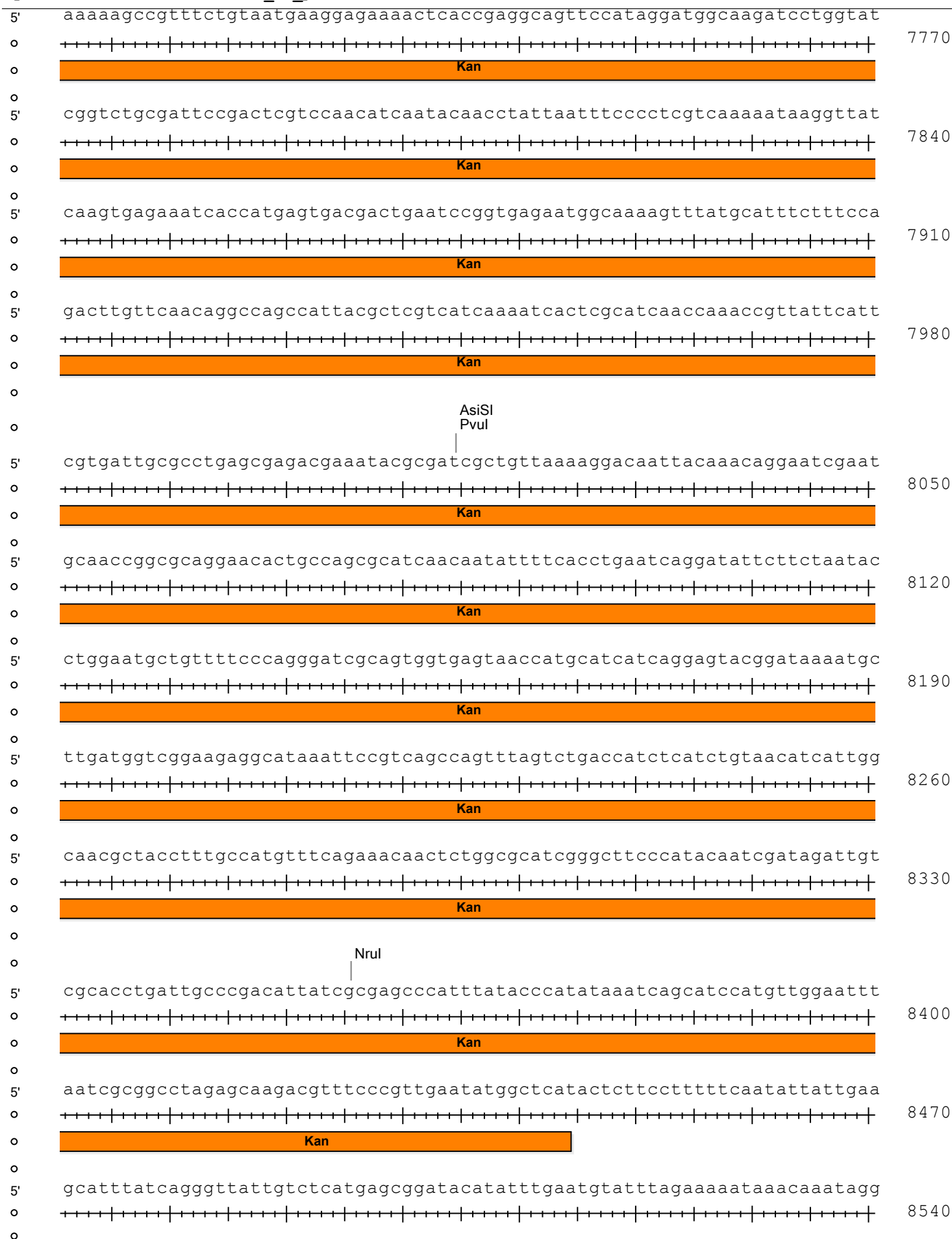
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 o
 o NdeI NheI BmtI NotI

5' ccacacaacatacgagccggaagcataaagtgtaaagcctggggtgcctaataatgagtgagctaactcacat 6580
 o
 o

Dysferlin-Exon-36-deletion_in_pUC57-Kan



Dysferlin-Exon-36-deletion_in_pUC57-Kan



Dysferlin-Exon-36-deletion_in_pUC57-Kan

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o		
5'	tataaaaataggcgtatcacgaggccctttcgtc	
o	++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++	8644
o		